		GZ	ZA				t Minerals, Li				oring No	o.:MW	/-10
	7 <i>L</i> `	Ge	oEnvironn gineers and	nental, Inc	c .	Wedro	n Silica Co.					1 of _	
		- I En	gineers and	i scientisis		Wedı	ron, Illinois					20.01511	
						Auger/	Sampler			Cr	neck: _	Bernard Fe	eneion
Con	tractor:		Cas	cade Drilli	ing	Casing	-					READINGS	o
Fore	man: _		Ja	son Drave	•K	Type: O.D. / I.D.:6"	Sonic Barrel	Date	Time	<u>e I</u>	Depth	Casing	Stab
Rep	resenta	tive:	D	ave Baue	12	O.D. / I.D.: ○ Hammer Wt.:	4.5						
Date	Start/F	inisn: _	of Scale	- 13 / 12-3 (Technisa	-13 nd Wedr	Hammer wt.: on)Hammer Fall:							
			Datu										
			Duit	AIII									
£			nple Inforn	nation		Commis		Chuntum	rks	<u> </u>	Equip	ment Insta	lled
Depth, (ft)	No.	Pen./ Rec., (in)	Depth, (ft)	Blows, (/6")	Field Test Data	Sample Description & Classific	cation	Stratum Desc.	Remarks				
1-	1	30/30	0-2.5			Well-graded SAND (SW), fine well-graded GRAVEL (GW), m coarse; trace cobbles		SW/GW					
2- 3-	2	30/30	2.5-5			Well-graded SAND and GRAV (SW-GW), medium to coarse; cobbles; dry	EL trace						
4-						332.33, 4.7							
5- 6-	3	60/60	5-10			24" Well-graded SAND (SW), 1 medium; trace Gravel, fine; bro	own	5' SW					-
						36" SILT (ML) with Gravel, med coarse; brown, dry	dium to	7'					
7-								ML					
8-											X/		
9-													
10												4	
10-	4	30/30	10-12.5			18" SILT (ML) with Gravel, med coarse; brown, moist	dium to						
11 – 12 –						12" Very stiff, lean CLAY (CL); organics; brown, moist	trace	11.5'					
13-	5	30/30	12.5-15			12" Very stiff, lean CLAY (CL); organics; brown, moist 18" Well-graded SAND (SW), f		13.5' SW (BEDROCK					
14- 15-	6	30/30	15-17.5			medium, dry, bedrock at 13.5' Well-graded SAND (SW), fine	to medium;	AT 13.5')					-
16- 17-						white, dry							
18-	7	30/30	17.5-20			Well-graded SAND (SW), fine trace coarse Sand; white, dry t	to medium; o moist						
19-													
REMARKS													
Stratificand un	cation line	es represe	nt approxima	ite boundary	between s	soil types, transitions may be gradual. Wy occur due to other factors than those pr	ater level readings lesent at the time me	nave been made	e at time	es e. B	oring N	lo.: MW-10	0

WELL_BOR_NEW 151178.50 DRAFT BORING LOGS_DECEMBER 2013 - WELL_BOR_NEW.GPJ GZADEPTH.GDT 2/24/14



Fairmount Minerals, Ltd. Wedron Silica Co. Wedron, Illinois

Boring No.: ___ MW-10 Page: ____2 of ___2 File No.: 20.0151178.50 Check: Bernard Fenelon

8 21 - 22 - 9 24 - 25 - 10 26 - 27 - 28 - 29 - 30 - 31 - 31 - 33 - 34 -	Pen./ Rec., (in) 30/30 30/30 60/60	Depth, (ft) 20-22.5 22.5-25 25-30	Blows, (/6")	Field Test Data	Sample Description & Classification Well-graded SAND (SW), fine to coarse; white to orangish, very moist to wet at 21.5' Well-graded SAND (SW), fine to coarse; off-white to gray, very moist to wet Well-graded SAND (SW), fine to coarse, gray, wet Well-graded SAND (SW), fine to coarse,	Stratum Desc.	Equipment Ins	
21 - 22 - 9 23 - 9 24 - 25 - 10 26 - 28 - 29 - 31 - 31 - 32 - 33 - 33 - 33 - 33 - 34 - 34 - 34	30/30	22.5-25			white to orangish, very moist to wet at 21.5' Well-graded SAND (SW), fine to coarse; off-white to gray, very moist to wet Well-graded SAND (SW), fine to coarse, gray, wet Well-graded SAND (SW), fine to coarse,	SW (BEDROCK AT 13.5')		
22 - 9 23 - 9 24 - 25 - 10 26 - 27 - 28 - 29 - 31 - 31 - 32 - 33 - 33 - 33 - 33 - 34 - 34 - 34	60/60	25-30			Well-graded SAND (SW), fine to coarse; off-white to gray, very moist to wet Well-graded SAND (SW), fine to coarse, gray, wet Well-graded SAND (SW), fine to coarse,			
23 — 9 24 — 25 — 10 26 — 27 — 28 — 29 — 30 — 11 31 — 32 — 33 —	60/60	25-30			off-white to gray, very moist to wet Well-graded SAND (SW), fine to coarse, gray, wet Well-graded SAND (SW), fine to coarse,			
23 — 24 — 25 — 10 26 — 27 — 28 — 29 — 31 — 31 — 32 — 33 — 33 —	60/60	25-30			off-white to gray, very moist to wet Well-graded SAND (SW), fine to coarse, gray, wet Well-graded SAND (SW), fine to coarse,			
25 - 10 26 - 27 - 28 - 29 - 30 - 11 31 - 32 - 33 -					gray, wet Well-graded SAND (SW), fine to coarse,			
26 - 27 - 28 - 29 - 31 - 31 - 32 - 33 - 33 - 33 - 34 - 34 - 34 - 34					gray, wet Well-graded SAND (SW), fine to coarse,			
27 – 28 – 29 – 30 – 31 – 32 – 33 –					gray, wet Well-graded SAND (SW), fine to coarse,			
28 – 29 – 30 – 11 31 – 32 – 33 –	24/24	30-32			Well-graded SAND (SW), fine to coarse,			
29 – 30 – 11 31 – 32 – 33 –	24/24	30-32			Well-graded SAND (SW), fine to coarse,			
29 – 30 – 11 31 – 32 – 33 –	24/24	30-32			Well-graded SAND (SW), fine to coarse,			
30 – 11 31 – 32 – 33 –	24/24	30-32			Well-graded SAND (SW), fine to coarse,			
31 – 32 – 33 –	24/24	30-32			vveii-graded SAND (SVV), fine to coarse,			
32-					gray, wet			
33-		İ						
					END OF BORING AT 32.5'	32.5'		
34								
_								
35—								
36—								
37-								
38 —								
39-								
40 —								
41								
42-								
43-								

on: NW of Scre	ascade Drillin ason Dravel Dave Bauer 3-13 / 12-3- een House (I tum:	ng k - -13 Mine Pr	Wed Auger/ Casing	ication	Date	_	File No.: Check: WATER R Depth	1 of _ 20.01511 Bernard Fo EADINGS Casing ment Insta	Stab
Ca J Set S	ascade Drillin ason Dravel Dave Bauer 3-13 / 12-3- een House (i tum:	ng k -13 Mine Pr	Auger/ Casing Type: O.D. / I.D.: 6" Hammer Wt.: Other: Sample Description & Classif Well-graded SAND (SW), fine some Gravel, medium; brown	Sampler Sonic Barrel 4.5" fication e to coarse;	Stratum Desc.	ROUND Time	Check: WATER R Depth	Bernard For EADINGS Casing	Stab
sh: 12- sh: NW of Scree 520.9' Da Sample Infor Pen./ Depth, (in) (ft) 0/60 0-5	ason Dravel Dave Bauer 3-13 / 12-3- een House (I tum:	k -13 Mine Pr	Auger/Casing Type: O.D. / I.D.: Hammer Wt.: Other: Sample Description & Classif Well-graded SAND (SW), fine some Gravel, medium; brown	Sampler Sonic Barrel 4.5"	Date Stratum Desc.	ROUND	WATER R Depth	EADINGS Casing	Stab
sh: 12- sh: NW of Scree 520.9' Da Sample Infor Pen./ Depth, (in) (ft) 0/60 0-5	ason Dravel Dave Bauer 3-13 / 12-3- een House (I tum:	k -13 Mine Pr	Casing Type: O.D. / I.D.: Hammer Wt.: Other: Sample Description & Classif Well-graded SAND (SW), fine some Gravel, medium; brown	Sonic Barrel 4.5" fication to coarse;	Stratum Desc.	Time	Depth	Casing	
e:	Dave Bauer 3-13 / 12-3- een House (i tum:	-13 Mine Pri	Hammer Wt.: Other: Sample Description & Classif Well-graded SAND (SW), fine some Gravel, medium; brown	ication	Stratum Desc.				
sh: 12- on: NW of Scree 520.9' Da Sample Infor Pen./ Depth, (ft) 0/60 0-5	en House (latum:	-13 Mine Pri	Hammer Wt.: Other: Sample Description & Classif Well-graded SAND (SW), fine some Gravel, medium; brown	ication	Stratum Desc.	Remarks	Equip	ment Insta	illed
son: NW of Screen Scree	een House (itum:	Mine Pro	Sample Sample Description & Classif Well-graded SAND (SW), fine some Gravel, medium; brown	ication	Stratum Desc.	Remarks	Equip	ment Insta	illed
Sample Information Depth, (ft)	mation Blows,	Field Test	Sample Description & Classif Well-graded SAND (SW), fine some Gravel, medium; brown	ication	Stratum Desc.	Remarks	Equip	ment Insta	illed
Sample Information (in) Sample Information (in) Depth, (ft) 0/60 0-5	mation Blows,	Field Test	Sample Description & Classif Well-graded SAND (SW), fine some Gravel, medium; brown	ication	Stratum Desc.	Remarks	Equip	ment Insta	alled
Pen./ Depth, (ft) 0/60 0-5	Blows,	Test	Description & Classif Well-graded SAND (SW), fine some Gravel, medium; brown	e to coarse;	Desc.	Remarks	Equip	ment Insta	illed
Pen./ Depth, (ft) 0/60 0-5	Blows,	Test	Description & Classif Well-graded SAND (SW), fine some Gravel, medium; brown	e to coarse;	Desc.	Remari	Eduih	on mote	
(in) (ii) 0/60 0-5	(/6")		Well-graded SAND (SW), fine some Gravel, medium; brown	e to coarse;		Re			
			some Gravel, medium; brown	e to coarse;	Svv				
0/60 5-10									
0/60 5-10			Well-graded SAND (SW) fine						
0/60 5-10			Well-graded SAND (SW) fine						
0/60 5-10			Well-graded SAND (SW) fine				_		
0/60 5-10			Well-graded SAND (SW) fine		1				
0/60 5-10			Well-graded SAND (SW) fine		l				
0/60 5-10			Well-graded SAND (SW) fine						
			g (O * * /, III (to coarse;					
			some Gravel, medium; little co	obbles; brown,					
	1 1		dry						
0/20 40 40 5			4011 Mall and - 1 0 AND (014)	fine to access					
0/30 10-12.5			10" Well-graded SAND (SW), some Gravel, medium; little co	ine to coarse; obbles: brown	10.8'	」 隊			
			dry						
			12" Lean CLAY (CL); trace Si	it	11.8' SW	- :	됩니다		
0/30 12.5-15			little Gravel, medium; brown						
12.0 10			12" Well-graded SAND (SW),	fine to coarse;					
			18" Well-graded SAND (SW)	fine to	BEDROCK (13.5')			-	
			medium; white, dry, bedrock a	at 13.5'					
0/30 15-17.5			18" Well-graded SAND (SW),						
			medium; white, dry						
							目		
0/30 17.5-20			Well-graded SAND (SW), fine	to coarse;					
			winte to orangish-wille, dry to	IIIOISt					
0.	/30 12.5-15 /30 15-17.5	/30 12.5-15 /30 15-17.5	/30 12.5-15 /30 15-17.5	some Gravel, medium; little of dry 12" Lean CLAY (CL); trace Sil 8" Well-graded SAND (SW), fi little Gravel, medium; brown 12" Well-graded SAND (SW), little Gravel, medium; brown 18" Well-graded SAND (SW), medium; white, dry, bedrock at 18" Well-graded SAND (SW), medium; white, dry Well-graded SAND (SW), medium; white, dry	some Gravel, medium; little cobbles; brown, dry 12" Lean CLAY (CL); trace Silt 8" Well-graded SAND (SW), fine to coarse; little Gravel, medium; brown 12" Well-graded SAND (SW), fine to coarse; little Gravel, medium; brown 18" Well-graded SAND (SW), fine to medium; white, dry, bedrock at 13.5' 18" Well-graded SAND (SW), fine to medium; white, dry 15-17.5 18" Well-graded SAND (SW), fine to medium; white, dry	some Gravel, medium; little cobbles; brown, dry 12" Lean CLAY (CL); trace Silt 8" Well-graded SAND (SW), fine to coarse; little Gravel, medium; brown 12" Well-graded SAND (SW), fine to coarse; little Gravel, medium; brown 18" Well-graded SAND (SW), fine to medium; white, dry, bedrock at 13.5' 18" Well-graded SAND (SW), fine to medium; white, dry Well-graded SAND (SW), fine to white, dry Well-graded SAND (SW), fine to coarse;	some Gravel, medium; little cobbles; brown, dry 12" Lean CLAY (CL); trace Silt 8" Well-graded SAND (SW), fine to coarse; little Gravel, medium; brown 12" Well-graded SAND (SW), fine to coarse; little Gravel, medium; brown 18" Well-graded SAND (SW), fine to medium; white, dry, bedrock at 13.5' 18" Well-graded SAND (SW), fine to medium; white, dry Well-graded SAND (SW), fine to coarse; Well-graded SAND (SW), fine to coarse;	some Gravel, medium; little cobbles; brown, dry 12" Lean CLAY (CL); trace Silt 8" Well-graded SAND (SW), fine to coarse; little Gravel, medium; brown 12" Well-graded SAND (SW), fine to coarse; little Gravel, medium; brown 18" Well-graded SAND (SW), fine to medium; white, dry, bedrock at 13.5' 18" Well-graded SAND (SW), fine to medium; white, dry Well-graded SAND (SW), fine to white, dry Well-graded SAND (SW), fine to coarse;	some Gravel, medium; little cobbles; brown, dry 12" Lean CLAY (CL); trace Silt 8" Well-graded SAND (SW), fine to coarse; little Gravel, medium; brown 12" Well-graded SAND (SW), fine to coarse; little Gravel, medium; brown 18" Well-graded SAND (SW), fine to medium; white, dry, bedrock at 13.5' 18" Well-graded SAND (SW), fine to medium; white, dry Well-graded SAND (SW), fine to coarse; Well-graded SAND (SW), fine to coarse;



Fairmount Minerals, Ltd. Wedron Silica Co. Wedron, Illinois

MW-11 Boring No.: __ Page: ____2 of ____3 File No.: 20.0151178.50 Check: Bernard Fenelon

Depth, (ft)		San Pen./	nple Inforn		Field	Sample	Stratum	ark	Equipment Installed
Dept	No.	Rec., (in)	Depth, (ft)	Blows, (/6")	Test Data	Description & Classification	Desc.	Remarks	
	7	30/30	20-22.5			Well-graded SAND (SW), fine to coarse; white to orangish-white; dry to moist	SW		
21-						, , ,			
22-	8	30/30	22.5-25			Well-graded SAND (SW), fine to coarse;			
23-	J	00/00	22.0 20			orangish-white to gray, very moist to wet			
24 –									
25-	9	30/30	25-27.5			Well-graded SAND (SW), fine to coarse; orangish-white to gray, very moist to wet			
26-						Grangish-write to gray, very moist to wet			
27-									
28-									
29-									
30-	10	48/48	30-34			Well-graded SAND (SW), fine to coarse;			
31-						orangish-white to gray, wet			
32-									
33-									
34						END OF BORING AT 54'			
35									
36-									
37-									
38-									
39-									
40-									
11-									
12-									
43-									
ᅱ									
2									
<u>.</u>									
5									
(



Fairmount Minerals, Ltd. Wedron Silica Co. Wedron, Illinois

Boring No.: MW-11
Page: 3 of 3
File No.: 20.0151178.50
Check: Bernard Fenelon

£		San	ple Inform	mation			24.4	rks	Equipment Installed
Depth, (ft)	No.	Pen./ Rec., (in)	Depth, (ft)	Blows, (/6")	Field Test Data	Sample Description & Classification	Stratum Desc.	Remarks	
		(,			Data		SW	-	
45- 46-									
47-									
48-									
49-									
50 —									-
51-									
52-									
53-							5.0		
54 —							54'		
55-									-
56 – 57 –									
58-									
60 —									_
61-									
62-									
63-									
64 –									
65 —									-
66-									
67-									
R									
M									
R E M A R K S									
59—60—61—62—63—64—65—67— REMARKS									

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

Cool Engineers and Neichards Fig. Cascade Drilling Fig. Cascade Drilling Sampler Sonic Barrel Sample Type: Sonic Barrel			GZ	ZA				Fairmount	Minerals, L	td.		Boring N	lo.:MV	V-12
Contractor: Cascade Drilling Foreman: Jasson Dravek Dave Bauer Dave Bauer Dave Bauer Dave Bauer Dave Bauer Do. / 1.0: 6' 4.5' 4.5' Date Time Depth Casing Depth Casing Description & Classification Description &	C	7 <i>L</i> `	Ge	oEnvironn	nental, Inc	: .		Wedro	n Silica Co.			Page: _	1 of _	3
Contractor:			$-$ En_{i}	gineers and	l Scientists									
Castractor:												Check: _	Bernard F	enelon_
Day Base Day	Con	tractor:		Cas	cade Drilli	ng	_	Casing	_		GROUN	NDWATER I		
Date Start/Finish: 12-3-13 12-3-	Fore	eman: _		Ja	son Drave	k	Type: _		Sonic Barrel	Date	Time	Depth	Casing	Stab
No. Ren Depth Biows (fit) Biows Test Data	Rep	resenta	tive:	D	ave Bauer	-								
Sample Information Sample Information Sample Description & Classification Descr														
Sample No. Pent Depth Blows (fit) Field Description & Classification Desc. Description & Desc. Description & Classification Desc. Description & Classification Desc. Description & Classification Desc. Description & Desc. Description & Description & Description & Description & Desc	Bori	ng Loca	ation: _	W of Main	Office (M	ine Prop								
1	GS I	Elev.: _	532.6	Datu	ım:		Other: _			-				
1	æ		San	nple Inform	nation						(S	Faui	nmont Inets	llod
1	Ë,		Pen./	•							larl	Lqui	pinent inst	illeu
1	Dep	No.	Rec.,	(ft)	(/6")		Description	on & Classific	ation	Desc.				
12" Very stiff SILT (ML); trace Sand, fine 42" Lean CLAY (CL); trace Gravel, fine; brown, dry to moist 24" Well-graded SAND (SW), fine to coarse; brown, wet 36" Lean CLAY (CL); tittle Sand, fine; trace Gravel, medium; moist 12" Very stiff, lean CLAY (CL); fine to medium; brown, moist 12" Very stiff, lean CLAY (CL); fine to medium; brown, moist 12" Very stiff, lean CLAY (CL); trace Gravel, fine; gray, moist 6" Well-graded SAND (SW), fine to coarse, with Gravel, fine or medium; 12" Very stiff, lean CLAY (CL); trace Gravel, fine; gray, moist 6" Well-graded SAND (SW), fine to coarse, with Gravel, fine to medium 18" Lean CLAY (CL); some Gravel, medium to coarse; gray, moist 10" Poorty-graded SAND (SP), medium; brown, moist 10" Poorty-graded SAND (SP), medium; brown, moist R R R R R R R R R R R R R		1		0-5		Data	6" Organic CLAY	(OL); black		0.5' OL				
2- 3- 4- 5- 2 60/60 5-10	1-						12" Very stiff SILT	(MĹ); trace S	and, fine					
24" Well-graded SAND (SW), fine to coarse; brown, wet 36" Lean CLAY (CL); little Sand, fine; trace Gravel, medium; moist 6" Lean CLAY (CL); little Sand, fine trace Gravel, medium; moist 11- 12- 13- 14- 15- 14- 16- 16- 17- 18- 19- R E M M M	.						42" Lean CLAY (C	JL); trace Grav st	vei, fine;	1.5'				
4 -	2-						brown, ary to mon							
4 -	3-													
5 - 2 60/60 5-10 24" Well-graded SAND (SW), fine to coarse; brown, wet 36" Lean CLAY (CL); little Sand, fine; trace Gravel, medium; moist 6" Lean CLAY (CL); little Sand, fine to medium; brown, moist 11 - 12 - 13 - 14 - 15 - 4 60/60 15-20 8 - 16 - 17 - 18 - 19 - 10 - 18" CLAY and SAND (SV), fine to medium to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist 10" Poorly-gr	Ĭ													
24" Well-graded SAND (SW), fine to coarse; brown, wet 36" Lean CLAY (CL): little Sand, fine; trace Gravel, medium; moist 6" Lean CLAY (CL): little Sand, fine 18" CLAY and SAND (SC), fine to medium; brown, moist 12" Very stiff, lean CLAY (CL): trace Gravel, fine; gray, moist 12" Very stiff, lean CLAY (CL): trace Gravel, fine; gray, moist 12" Lean CLAY (CL): some Gravel, medium 18" Lean CLAY (CL): some Gravel, medium 18" Lean CLAY (CL): some Gravel, medium 10 coarse; trace cobbles: gray 50" Lean CLAY (CL): some Gravel, medium to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist R	4													
2	5	_												
36" Lean CLAY (CL); little Sand, fine; trace 7" 8 - 9 - 10 - 3 60/60 10-15 11 - 12 - 13 - 14 - 15 - 4 60/60 15-20 R B - 19 - 19 - 19 - 19 - 19 - 19 - 19 -		2	60/60	5-10				SAND (SW), fi	ne to coarse;	SW				
Gravel, medium; moist 7	6						36" Lean CLAY (0	CL); little Sand	, fine; trace					
8 - 9 - 10 - 3 60/60 10-15 6" Lean CLAY (CL); little Sand, fine 18" CLAY and SAND (SC), fine to medium; brown, moist 12" Very stiff, lean CLAY (CL); trace Gravel, fine; gray, moist 6" Well-graded SAND (SW), fine to coarse, with Gravel, fine to medium 18" Lean CLAY (CL); some Gravel, medium to coarse; trace cobbles; gray 50" Lean CLAY (CL); some Gravel, medium to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist 16.2" SP	7						Gravel, medium;	moist						
9 - 10 - 3 60/60 10-15 6" Lean CLAY (CL); little Sand, fine 18" CLAY and SAND (SC), fine to medium; brown, moist 12" Very stiff, lean CLAY (CL); trace Gravel, fine; gray, moist 6" Well-graded SAND (SW), fine to coarse, with Gravel, fine to medium 18" Lean CLAY (CL); some Gravel, medium to coarse; trace cobbles; gray 15 - 4 60/60 15-20 50" Lean CLAY (CL); some Gravel, medium to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist R E M	·									CL				
10— 3 60/60 10-15 6" Lean CLAY (CL); little Sand, fine 18" CLAY and SAND (SC), fine to medium; brown, moist 12" Very stiff, lean CLAY (CL); trace Gravel, fine; gray, moist 6" Well-graded SAND (SW), fine to coarse, with Gravel, fine to medium 18" Lean CLAY (CL); some Gravel, medium to coarse; trace cobbles:gray 15— 4 60/60 15-20 50" Lean CLAY (CL); some Gravel, medium to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist 18— 19— 18— 19— 18— 19— 10.5" 10.5 SC 12 12 12 13 14 15. SC 12 12 12 12 12 12 14 15 17 18 18 19 10 10 10 10 10 10 10 10 10	8-													
10— 3 60/60 10-15 6" Lean CLAY (CL); little Sand, fine 18" CLAY and SAND (SC), fine to medium; brown, moist 12" Very stiff, lean CLAY (CL); trace Gravel, fine; gray, moist 6" Well-graded SAND (SW), fine to coarse, with Gravel, fine to medium 18" Lean CLAY (CL); some Gravel, medium to coarse; trace cobbles:gray 15— 4 60/60 15-20 50" Lean CLAY (CL); some Gravel, medium to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist 18— 19— 18— 19— 18— 19— 10.5" 10.5 SC 12 12 12 13 14 15. SC 12 12 12 12 12 12 14 15 17 18 18 19 10 10 10 10 10 10 10 10 10	9_													
11— 12— 13— 14— 15— 4 60/60 15-20														
11- 12- 13- 14- 15- 4 60/60 15-20 Region Minimum Mini	10	3	60/60	10-15			6" Lean CLAY (Cl	L); little Sand,	fine	10.5'				-
12 - 13 - 14 - 15 - 4 60/60 15-20 15-20 150	11						18" CLAY and SA	ND (SC), fine	to medium;	SC				
fine; gray, moist 6" Well-graded SAND (SW), fine to coarse, with Gravel, fine to medium 18" Lean CLAY (CL); some Gravel, medium to coarse; trace cobbles; gray 50" Lean CLAY (CL); some Gravel, medium to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist REMARKS REMARKS 19— In the coarse of the coarse								n CLAY (CL): 1	race Gravel	12'				
with Gravel, fine to medium 18" Lean CLAY (CL); some Gravel, medium to coarse; trace cobbles; gray 50" Lean CLAY (CL); some Gravel, medium to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist R E M	12						fine; gray, moist			CL				
14— 15— 4 60/60 15-20 50" Lean CLAY (CL); some Gravel, medium to coarse; trace cobbles;gray 50" Lean CLAY (CL); some Gravel, medium to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist R = 19— R E E M	13-						6" Well-graded SA	AND (SW), fin	e to coarse,					
15 — 4 60/60 15-20 50" Lean CLAY (CL); some Gravel, medium to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist SP							18" Lean CLAY (0	CL); some Gra	vel, medium					
16— 17— 18— 19— R E M	14 –						to coarse; trace of	obbles;gray						
to coarse; gray, moist 10" Poorly-graded SAND (SP), medium; brown, moist REM	15-	1	60/60	15 20			50" Loop CL AV ((CL): como Cra	val madium					-
10	16	7	00/00	13-20			to coarse; gray, m	noist		16.21				
17- 18- 19- REM	- סו						10" Poorly-graded	SAND (SP),	medium;	10.2 SP				
19— R E M	17						brown, moist							
19— R E M	10_													
R E M	10													
E M	19-													
E M														
A R K S	E M A R K													

Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

WELL_BOR_NEW 151178.50 DRAFT BORING LOGS_DECEMBER 2013 - WELL_BOR_NEW.GPJ GZADEPTH.GDT 2/24/14



Fairmount Minerals, Ltd. Wedron Silica Co. Wedron, Illinois

MW-12 Boring No.: ___ Page: ____2 of ____3 File No.: 20.0151178.50 Check: Bernard Fenelon

Depth, (ft)	No.	Pen./ Rec., (in)	ple Inforr Depth, (ft)	Blows, (/6")	Field Test Data	Sample Description & Classification	Stratum Desc.	Remarks	Equipment Installed
	5	60/60	20-25		Data	6" Poorly-graded SAND (SP), medium; brown, moist	20.5' SP		
21-						54" Lean CLAY (CL); some Gravel, medium			
22-						to coarse; little Sand, medium to coarse; gray, moist			
23-									
24 -									
25 –	6	60/60	25-30			Lean CLAY (CL); some Gravel, medium to			
26-						coarse; little Sand, medium; gray, moist			
27-									
28-									
29-									
80-	7	60/60	30-35			18" Lean CLAY (CL); some Gravel, medium			
31 —	,	30/00	50-50 5			to coarse; little Sand, medium; gray, moist 42" Well-graded SAND (SW), medium to	24.5'		
32-						coarse; gray to orangish, moist to very moist	31.5' SW		
3-									
4-									
5-	0	60/00	25 40			Clayer CAND (CC) little Crayel and divers	35'		
6-	8	60/60	35-40			Clayey SAND (SC); little Gravel, medium to coarse; brown, very moist to wet			
37-									
88-									
19 –									
10 —	_								
1-	9	60/60	40-45			Clayey SAND (SC); little Gravel, medium to coarse; brown, very moist to wet			
12-									
3-									
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MW-12 Boring No.: ___ Page: ___3__ of ___3 File No.: 20.0151178.50 Check: Bernard Fenelon

<u>+</u>			ple Inforr		Field	Sample	Stratum	<u></u>	Equipment Installed
Depth, (ft)	No.	Pen./ Rec., (in)	Depth, (ft)	Blows, (/6")	Test Data	Sample Description & Classification	Desc.	Remarks	
							SC 45'		
45						END OF BORING AT 45'	45	1	
46									
47									
48-									
49-									
50-									
51-									
52-									
53-									
54 –									
55 —									
56-									
57-									
58-									
59-									
60-									
61-									
62-									
63-									
64 –									
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or:		mental, In d Scientists	'		edron, Illinois				20.01511	
or:		_		Auger/ Casing					Bernard F	
	Cas	scade Drill	ing	_				DWATER F		
4-41	Ja	ison Drave	r.	Type:6" O.D. / I.D.:6"	Sonic Barrel 4.5"	Date	Time	Depth	Casing	St
tative:	L 19-/	<u>/ave_baue</u> 1-13 / 12-4	-13	O.D. / I.D.: ⁶ Hammer Wt.:	4.5			+		
ocation:	SE of I	Pit 3 (Mine	Prop)	Hammer Fall:						
532.8										
	ple Inforr	mation	F1-7 1	Camala		Ctuat	rks	Equip	ment Insta	alled
Rec., (in)	Depth, (ft)	Blows, (/6")	Field Test Data	Description & Clas		Desc.	Rema			
60/60	0-5			Well-graded SAND and we	II-graded	SW-GW				
				Clay; gray, moist	coaise, some					
				,, J, J,						
						5'				
60/60	5-10					SW				
				some Gravel, coarse; some moist	e Clay; gray,					
60/60	10-15			18" Well-graded SAND (SV	V), fine to coarse;					
				some Gravel, coarse; some moist	e Clay; gray,	11 5'				
				42" Lean CLAY (CL); little	Gravel, medium	CL				
				to coarse; gray, moist						
60/60	15-20			Lean CLAY (CL); some Gra	avel, fine to					
	Pen./ Rec., (in) 60/60 60/60	Pen./ Rec., (in) Depth, (ft) 0-5 0-5 0-5 0-5 0-5 0-5 0-5 0-5 0-5 0-5	Rec., (in) (ft) Blows, (/6") 60/60 0-5 60/60 10-15	Pen./ Rec., (in)	Pen./ Rec., (in) Depth, (ft) (ft) Blows, (/6") Test Data Description & Class	Pen./ Rec., (in) Depth, (ft) Blows, (/6") Description & Classification	Pen./ (it) Depth, (it) Blows, (it) Go/60 O-5 Well-graded SAND and well-graded GRAVEL (SW-GW), fine to coarse; some Clay; gray, moist Sw-Gw Gravel, coars	Pen./ Rec., (it) Depth, (ft) Blows, (/6") Test Data Description & Classification Desc. Each Clay; gray, moist	Well-graded SAND and well-graded GRAVEL (SW-GW), fine to coarse; some 60/60 5-10 Well-graded SAND (SW), fine to coarse; some Clay; gray, moist 18" Well-graded SAND (SW), fine to coarse; some Clay; gray, moist 18" Well-graded SAND (SW), fine to coarse; some Gravel, coarse; some Clay; gray, moist 42" Lean CLAY (CL); little Gravel, medium to coarse; gray, moist Lean CLAY (CL); some Gravel, fine to coarse; little well-graded Sand, fine to	Well-graded SAND and well-graded GRAVEL (SW-GW), fine to coarse; some Clay; gray, moist Well-graded SAND (SW), fine to coarse; some Clay; gray, moist Well-graded SAND (SW), fine to coarse; some Clay; gray, moist 18" Well-graded SAND (SW), fine to coarse; some Clay; gray, moist 18" Well-graded SAND (SW), fine to coarse; some Clay; gray, moist 12" Lean CLAY (CL); little Gravel, medium to coarse; gray, moist Lean CLAY (CL); some Gravel, fine to coarse; little well-graded Sand, fine to



Fairmount Minerals, Ltd. Wedron Silica Co. Wedron, Illinois

Boring No.: ___ MW-13 Page: ____2 of ____3 File No.: 20.0151178.50 Check: Bernard Fenelon

Pen./ Rec., (in) 60/60	20-25 25-30	Blows, (/6")	Field Test Data	Sample Description & Classification Lean CLAY (CL); some Gravel, fine to coarse; little well-graded Sand, fine to coarse; gray, moist Clayey SAND (SC), some Gravel, fine to coarse; gray, very moist to wet	Stratum Desc.	Equipment Installed
60/60				coarse; little well-graded Sand, fine to coarse; gray, moist Clayey SAND (SC), some Gravel, fine to	25'	
	25-30			Clayey SAND (SC), some Gravel, fine to	25' SC	
	25-30				25' SC	-
	25-30				25' SC	-
	25-30				25' SC	
60/60				coarse, gray, very moist to wet		1 1
60/60						
60/60						
60/60						
00/00	20.25			Clavey CAND (CC); some Cravel fine to		
	30-35			Clayey SAND (SC); some Gravel, fine to coarse; trace cobbles; gray to black, very moist to wet		
120/120	35-45			Clayey SAND (SC); some Gravel, medium		
				to course, gray to black, wet		
					to coarse; gray to black, wet	Clayey SAND (SC); some Gravel, medium to coarse; gray to black, wet Strepresent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at lons stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were



Fairmount Minerals, Ltd. Wedron Silica Co. Wedron, Illinois

MW-13 Boring No.: ___ Page: ___3__ of ___3 File No.: 20.0151178.50 Check: Bernard Fenelon

Depth, (ft)		Pen./	ple Inforn Depth,	Blows.	Field	Sample Description & Classification	Stratum	nar	Equipment Installed
Deb	No.	Rec., (in)	(ft)	(/6")	Test Data	Description & Classification	Desc.	Remarks	[전쟁
1 5 –	9	24/24	45-47			Clayey SAND (SC); some Gravel, medium			
16-						Clayey SAND (SC); some Gravel, medium to coarse; gray to black, wet			
17						END OF BORING AT 47'	47'	-	
18-									
19 —									
50 - 51 -									
52-									
53-									
54 –									
55 –									
56-									
57-									
58-									
59 –									
50 —									
51-									
62 – 63 –									
64 —									
35 —									
66-									
67 —									
0/]									
R E M									
5									